



[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#)

Welcome United States Patent and Trademark Office

[AbstractPlus](#)

[BROWSE](#)

[SEARCH](#)

[IEEE XPLORE GUIDE](#)

[View Search Results](#) | [Previous Article](#) | [Next Article](#) [e-mail](#)

Access this document

Full Text: [PDF](#) (416 KB)

Download this citation

Choose

Download

[Learn More](#)

Rights & Permissions



[Learn More](#)

End-to-end QoS architecture for VPNs: MPLS VPN deployment in a backbone network

[Haeryong Lee](#) [Jeongyeon Hwang](#) [Byungryong Kang](#) [Kyoungpyo Jun](#)
Electron. & Telecommun. Res. Inst., South Korea;

This paper appears in: **Parallel Processing, 2000. Proceedings. 2000 International W**

Publication Date: 21-24 Aug. 2000

On page(s): 479 - 483

Number of Pages: xvi+584

Meeting Date: 08/21/2000 - 08/24/2000

Location: Toronto, Ont.

INSPEC Accession Number: 6728043

DOI: 10.1109/ICPPW.2000.869153

Posted online: 2002-08-06 23:15:06.0

Abstract

Virtual private networks (VPNs) enable companies to connect geographically dispersed c
workers via secure links to the private company network, using the public Internet as a b
VPN service in the broadband data communication network is very important and necess
who want to specify group communication. VPN mechanisms are needed which work ovr
backbones, and which can also be migrated to new backbones like MPLS (Multi-Proto
MPLS is the latest step in the evolution of multi-layer switching in the Internet. In this pap
MPLS can be applied to creating VPNs. For this, we researched an architectural model fr
MPLS domain. The proposed model takes advantage of both network layer peering and
link-layer circuit and per-stream switching. It comes with a design scheme and an implem
for VPN services in MPLS systems. Then we describe MPLS-based VPN service proced
MPLS VPN schemes that must be accommodated with existing network backbones and
a full range of QoS characteristics

Index Terms

Inspe

Controlled Indexing

[Internet](#) [packet switching](#) [quality of service](#) [telecommunication security](#) [trans](#)
[protocols](#)

Non-controlled Indexing

[Internet backbone](#) [MPLS backbone network](#) [MPLS virtual private network dep](#)
[architectural model](#) [broadband data communication network](#) [design scheme](#) ;
[QoS architecture](#) [geographically dispersed offices](#) [group communication](#) [impl](#)
[procedure](#) [link-layer circuit switching](#) [multi-layer switching](#) [multi-protocol label](#)
[network layer peering](#) [packet switching](#) [per-stream switching](#) [private compan](#)
[remote workers](#) [secure links](#) [service quality](#)

Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents